

Greenhouse Gas Technology Verification Center

A U.S. EPA Sponsored Environmental Technology Verification Organization

What is the Center?

Since the early 1990s, government and private industry groups in the U.S. have identified the lack of independent and credible performance data as a major impediment to the acceptance and use of innovative environmental technologies. It is recognized that technology buyers need such data to make informed technology purchase decisions, so an initiative to provide this information was implemented by the U.S. Environmental Protection Agency (EPA) in 1995. The initiative provides independent data on technology performance to private and public technology decision-makers. This is accomplished through partnerships between the EPA and private-sector environmental testing laboratories. These laboratories perform independent third-party performance tests on commercial technologies, then make the data available to the public.



Southern Research Institute is in a public/private partnership with the EPA to operate the Greenhouse Gas (GHG) Technology Verification Center (the Center). Verifications conducted by the Center occur under the auspices of the Environmental Technology Verification (ETV) Program, and often focus on technical, economic, and emissions related performance characteristics. Baseline and GHG

How Can I Get Involved?

To learn more about EPA's ETV Program, go to the ETV Web site (www.epa.gov/etv). If you would like to participate in the Stakeholder group process, or find out more about GHG Verification testing, contact the Center's Managers listed below or visit the GHG Center Web site (www.sri-rtp.com).

Steve Piccot, Director - 919/806-3456
David Kirchgessner, Project Officer - 919/549-4021

reduction determinations are made based on the latest guidance from the IPCC, the national governments involved in the verification, and stakeholder groups consisting of international technical and policy experts. Technologies selected for verification are not specified by the government, but by industry and others that purchase and use the products. With this, technologies of most interest are examined and the best performing technolo-

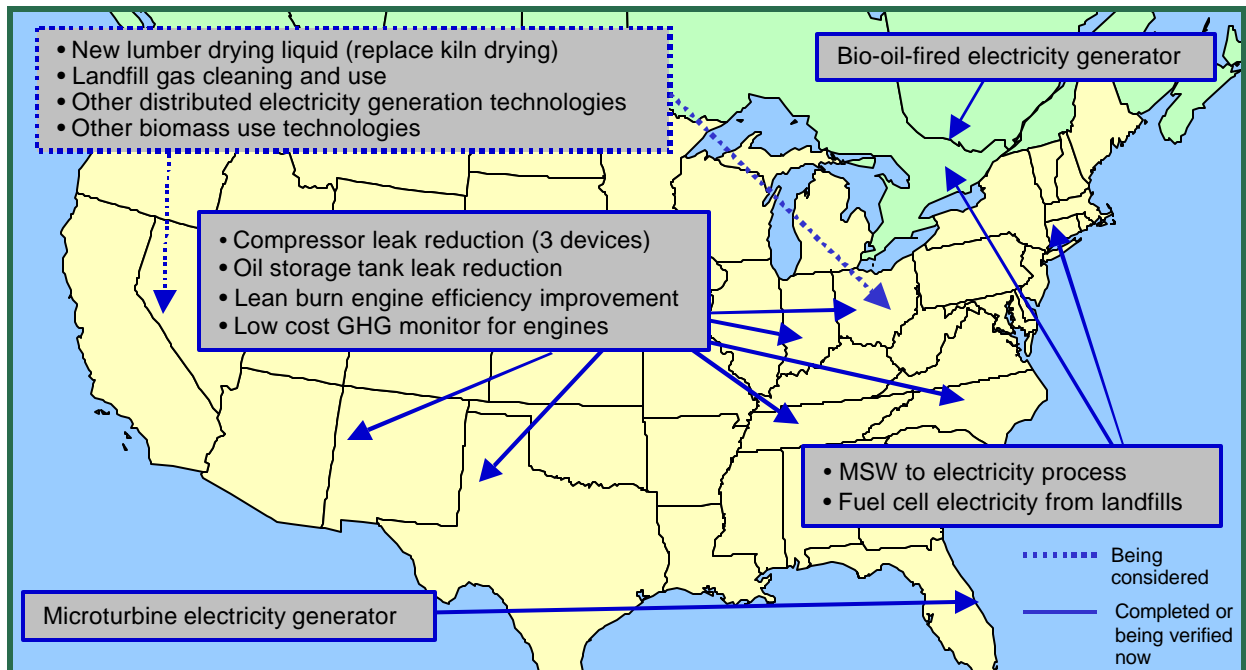
gies are ultimately adopted; providing benefits to both the environment and the technology-purchasing public. The Center verifies the performance of GHG reduction and



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monitoring technologies in the electrical power, oil and gas, biomass energy, solid waste disposal, and forest products industries. After only a few years of operation the Center's verification activities are accelerating as technology purchasers begin using Center verifications to make purchase decisions, and vendors seek independent confirmation of their technology's performance (see map of testing activities).



As requested by the program's industry stakeholders, GHG Center verifications are conducted at actual industry field sites to challenge not only a technology's technical performance, but its economic and operational performance as well. The adjacent photograph shows a Center scientist conducting field tests of a new device that reduces leaking natural gas (a greenhouse gas) from a natural gas pipeline pumping station. The system recovers leaking gas for sale, and typical of other technologies tested by the Center, provides effective and low-cost GHG mitigation. All results are peer reviewed by industry stakeholders and quality assured by EPA QA personnel.

